Approved For Release 2004/03/31 : CIA-RDP80B01139A000200010021-8 TAB WAW **ORGANIZATION CHART** OFFICE OF CENTRAL REFERENCE OFFICE OF THE ASSISTANT DIRECTOR Administrative USIB Committee on Documentation Staff USIB Committee on Procurement of Foreign Publications Automation Central Reference Advisory Group Development Panel of Consultants Group Liaison & Graphics Special Machine Document CIA Biographic Industrial Collection Register Division Division Library Register Register Register Division

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CENTRAL INTELLIGENCE AGENCY

CIA LIBRARY

INTELLOFAX SYSTEM

WHAT IT IS -

A catalog of machine index cards providing access to the subject matter of foreign information reports and finished intelligence produced by CIA and other members of the intelligence community. Books and motion picture films acquired by CIA are also cataloged under this system.

The numerical framework for the indexing of documents, books, and films is provided in CIA's *Intelligence Subject Code*, e.g.

- 750 Commerce, Communications, and Transportation
 - 751 Foreign Trade
 - 752 Domestic Trade
 - 753 Communications Service
 - 754 Highway Transportation
 - 755 Railway Transportation
 - 756 Water Transportation
 - 757 Air Transportation

IBM machines and other special equipment developed by CIA are used to produce *Intellofax Tapes* (illus. p. 3). These are strips of paper which show the titles and document control numbers of all reports held by the CIA Library which deal with any given subject in any given area.

A system in effect since September, 1954, provides for filming and viewer or print service on the microfilm copy of IAC information report series. (Information reports received prior to September, 1954, are maintained by CIA Library in original form.)

WHAT IT CAN DO --

Provide lists of document references according to requester's specifications by:

a)	Subject	e.g.	Commercial Airfields	_	757.4
b)	Area	e.g.	Lebanon		12K
c)	Source	e.g.	Air		
d)	Security Classification	e.g.	All or any specific cla	ssifica	tion

e) Date of Publication e.g. 1952 to date

Finished and basic intelligence studies can be segregated from information reports. Books and motion picture films are listed separately.

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Next 1 Page(s) In Document Exempt

25X1

Selected Questions Posed to the CIA Reference Staff and Selected Reference Aids Produced

Information-Type Questions:

- 1. What percentage of Chinese cotton production goes into padding for clothing and bedding?
- 2. Provide a legislative history of so-called Soviet common-law marriage and the present status of common-law marriage in the U.S.
- 3. Find the type and amount of explosive used, and the number of cubic yards of rock moved in the largest non-nuclear blast.
- 4. Identify a collection of newspaper articles written by Karl Marx which were published after his death by his daughter; determine if copies of this book have been stolen from all libraries in the U.S. by Russian spies as claimed in an article in the Washington Daily News.
 - 5. Give the beginning date of Ramadan for the next ten years.
- 6. Provide revisionist quotations on democratic centralism, humanistic socialism, and the guiding role of the CPSU.
 - 7. What are the names of Khrushchev's sons-in-law?
- 8. What was the name of a newspaper published by Julius Caesar?
 - 9. Who was the "man on horseback"?
 - 10. Where did Pandora live?

Literature Search-Type Questions:

- 1. All available information on North Korean Civil Aviation.
- 2. All information on missile hardware and installations.
- 3. All information on the Volga-Don Canal.

C-O-N-F-I-D-E-N-T-I-A-L

TAB "C"

- 2 -

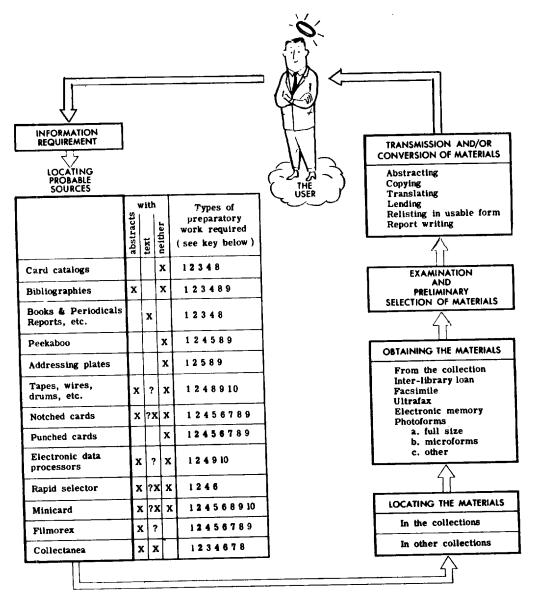
Published Reference Aids:

- 1. IAC Union List of Intelligence Serial Publications.
- 2. Intelligence Publications Index.
- 3. Monthly Index of Russian Accessions (published by the Library of Congress).

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- 5. Bibliography of Middle East: Economics, Geography, History and Politics, with Special Section on Iraq.
- 6. Observed Radio Frequency Usage.
- 7. Calendar of Projected International Conferences.
- 8. Index to Reports on Rail Routes Traveled in the USSR.

Complete Cycle Information Service



Key to the types of preparatory work that may be required

- L. Building the collection
- 2. Descriptive and subject cataloging and indexing
- 3. Compilation
- 4. Reproduction and typing
- 5. Punching, notching, embossing and/or tabbing
- 6. Photographing and photo-processing
- 7. Clipping and mounting
- 8. Manual filing
- 9. Machine filing
- 10. Preparation of programming instructions

TAB "E"

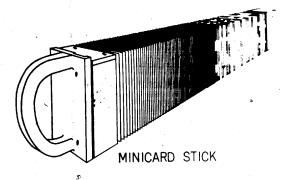
MICROPHOTOGRAPHY

Eastman Kodak known as MINICARD. This system in essence substitutes a 16 x 32 mm film strip for present CIA system which uses the IEM punched index card and the corresponding hard copy or film in the document storage file. MINICARD document images are read electronically not mechanically as IBM cards are. The characteristics of MINICARD make possible a reduction of space requirements by a factor of 1, and an increase in speed of handling by a factor of 2. The new system is capable of a level of information manipulation and a degree of coding sophistication which gives promise of radically augmenting the contribution of the information fragment to the solution of reference problems requiring a search of the literature. And, contrary to present practice, the integrity of the file is maintained at all times.

C-O-N-F-I-D-E-N-T-I-A-L

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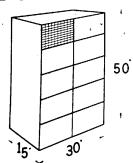
STORAGE

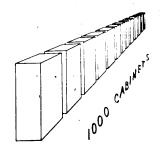


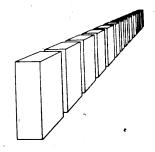
EQUIVALENT TO ONE FILE HARD COPY DOCUMENTS



ONE FILE MINICARD STICKS EQUIVALENT TO ONE MILLION DOCUMENTS AND FOUR MILLION TABULATING CARDS







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Russian Version

Изучени реакции между этиловым мученн реакции между этиловым афиром пиронатехин-фосформетой кислотн и триарилбромметанами. При вза имодействии указанных соединений обвазуются пирокатехиновые эфирм триарилметилфосфиновых яколот. При омылении последних слабой соляной кислотой получень пирокатехин и триарилметилфосфиновые кислотн.

В касплатем исстановании нами

римаетэмфосиновые кислоты.

В настоящем исследовании нами изучались реакции между смещанными эфирами фосфористой кислоты, типа скисов реготы в тиарилоромметанами.

реариия между этилипрокатехино-нем эфиром фосфористой кислотн и триарии бромметанами по аналогии с алкилфосфористыми эфирами долина идти по реакции:

Экспериментальные данные показа экопериментальные данные показа-и, что реакция действительно проте-вает по умазанному уравнению. Так, например, при нагревании смеси трих-ринбромметана и этилпирокатехинового фире фосфористой кислоты происходит внделение бромистого этила и образо-вание кристалического вещества, представляющего собой пирокатехино-вни эфир триарилметилфосфиновой кис-лоты. Для установления строения по-лученного соепинения била провелена лоти. Для установления строения по-лученного соединения била проведена реакция омиления разбавленной соля-ной кислотой при нагревании от 180 до 200° в запаяних трубках. Продук-том омиления являются пирокатехин и триарилметилфосфиновая кислота.

Machine Version

Reactions between ethyl ester of pyrocate cholphos-acid and triarilbromomethanes were studied - Upon interaction of above-mentioned compounds the pyrocatechol ester of triarylmetphosphin-acids are formed -Upon the saponification of the latter with weak hydrochloric acid pyrocatechol and the triarylmethylphosphin-acids were obtained -

In present investigation reactions betweenixed esters of phosphorous acid were studied = type refer p 1h79 pg 1 --- ϕ where R eql C2H5 β - = and triarilbromomethanes - reaction between ethylpyrocate chol ester of phosphorous acid and triar-ilbromomethanes on with alkylphorous esters must proceed according to reaction 3 refr p 1479 pg 2 -

The experimental data did show = that re The experimental data did show = that re-action actually is proceeding according to above-mentioned equation - thus = for example = upon the heating of the mixture of the triarylbro-methane and ethylpyro-catechol ester of phosphorous acid isolation of bromide ethyl and formation of crystalline substance does occur = which crystalline substance does occur = which is pyrocatechol ester of triarylmethos-phin-acid - for the establishment of the structure of obtained compound was the reaction of the saponification with diluted hydrochloric acid upon heating from 180 30 200 deg in sealed tubes carried cut - the products of the sapon-ification are pyrocatechol and the triarvlmeth-phosphinic acid -

Edited Machine Version

Reactions between the ethyl ester of pyrocatecholphosphorous acid and triaryl-bromomethanes were studied. Upon inter-action of the above-mentioned compounds, the pyrocatechol esters of triarylmethyl phosphinic acids are formed. Upon sapon ification of the latter with weak hydrochloric acid, pyrocatechol and the arylmethylphosphinic acids were obtained

In the present investigation, reactions The present investigation, reactions between mixed esters of phosphorous acid of the type 66H₄-02-POR (where R is C2H₂ and triarylbromomethanes were studied. The reaction between the ethylpyrocatechol ester of phosphorous acid and triarylbromomethanes, by analogy with alkyl phosphorous acid esters, must proceed according to the reaction (schematics omitted; ed.)

The experimental data showed that the reaction actually proceeded according to the above-mentioned equation. Thus, for example, upon heating a mixture of a triar-lbromomethane and the ethylpyrocatechol ester of phosphorous acid, the isolation of ethyl bromide and the formation of a crystalline substance occurs which is the pyrocatechol ester of tri-arylmethylphosphinic acid. To establish the structure of the obtained compound, seconfication with hydrochloric acid at 180-200° in sealed tubes was carried out The products of the saponification are pyrocatechol and triarylmethylphosphinic

Human Translation

Reactions between the ethyl ester of pyrocatecholphosphorous acid and triaryl-bromomethanes were studied. Upon interaction of the indicated compounds, the pyrocatechol esters of triarylmethylphosphinic acids are formed. Upon hydrolysis of the latter with weak hydrochloric acid, pyrocatechol and triarylmethylphosphinic acids are obtained.

In the present investigation, we studied the reaction between mixed esters of phosphorous acid of the type C6H,-02-FOR (where R-C2H5) and triarylbromomethanes.

The reaction between the ethylpyrocatechol ester of phorphorous acid and triarylbromomethanes, by analogy with alkyl-phosphorous esters, should go according to the reactions: (schematics omitted: tr.)

The experimental data showed that the reaction indeed proceeds according to the indicated equation. Thus, for example, upon heating of a mixture of triarylbroutenthane and the ethylpyrocatechol ester of phosphorous acid, there occurs the separation out of ethyl bronide and the formation of a creatalline superance. separation of a crystalline substance which is the pyrocatechol ester of triarylmethylphosphinic acid. For determinarylmethylphosphinic acid. ation of the structure of the produced compounds, they were hydrologized with weak hydrochloric acid at 180-200° in sealed tubes. The products of the hydrol-ysis were pyrocatechol and triarylmethylphosphinic acid.

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- Andrew D. Booth, L. Brandwood and J. P. Cleave, <u>Mechanical Resolution</u> of Linguistic Problems, Butterworths Scientific Publications, London, 1958.
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